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============================================================
Sequence Listing was accepted.
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Reviewer: Durreshwar Anjum
Timestamp: [year=2009; month=1; day=5; hr=10; min=34; sec=40; ms=602; ]
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Application No: 10590657   Version No: 1.0

Input Set:

Output Set:

Started: 2008-12-22 16:32:14.527

Finished: 2008-12-22 16:32:15.828

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 301 ms

Total Warnings: 6

Total Errors: 0

No. of SeqIDs Defined: 8

Actual SeqID Count: 8

Error code	Error Description
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W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)

<110>   Deutsches Krebsforschungszentrum

<120>   Use of DMBT-1 for capturing sulphate and phosphate group exposing agents

<130>   DK62080PC

<140>   10590657
<141>   2008-12-22

<150>   EP 04004281.4

<151>   2004-02-25

<160>   8

<170>   PatentIn version 3.1

<210>   1

<211>   2413

<212>   PRT

<213>   Homo sapiens

<400>   1

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1   5   10   15

Val Leu Ser Thr Gly Gly Trp Ile Pro Arg Thr Thr Asp Tyr Ala Ser
            20   25   30

Leu Ile Pro Ser Glu Val Pro Leu Asp Pro Thr Val Ala Glu Gly Ser
        35   40   45

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Pro Phe Pro Ser Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
    50                  55                  60

Pro Ile Ser Leu Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
65                  70                  75                  80

Leu Ile Pro Ser Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
                85                  90                  95

Asp Ser Gly Leu Ala Leu Arg Leu Val Asn Gly Asp Gly Arg Cys Gln
                100                 105                 110

Gly Arg Val Glu Ile Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp
            115                 120                 125

Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly
    130                 135                 140

Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Trp Phe Gly Gln Gly
145                 150                 155                 160

Ser Gly Pro Ile Ala Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser
            165                 170                 175

Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
            180                 185                 190

His Gly Glu Asp Ala Gly Val Ile Cys Ser Ala Ala Gln Pro Gln Ser
            195                 200                 205

Thr Leu Arg Pro Glu Ser Trp Pro Val Arg Ile Ser Pro Pro Val Pro
    210                 215                 220

Thr Glu Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
225                 230                 235                 240

Asp Arg Cys Arg Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
                245                 250                 255

Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys
            260                 265                 270

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln
```

Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser
    290   295   300

Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Thr
305   310   315   320

His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Pro
            325   330   335

Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala
            340   345   350

Ser Thr Ala Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly
        355   360   365

Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp
    370   375   380

Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala Asn Val Val
385   390   395   400

Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro Gly Asn Ala
            405   410   415

Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys
            420   425   430

Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu
    435   440   445

Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala
    450   455   460

Ala His Ser Trp Ser Thr Pro Ser Pro Asp Thr Leu Pro Thr Ile Thr
465   470   475   480

Leu Pro Ala Ser Thr Val Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu
            485   490   495

Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg
            500   505   510

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala
        515   520   525

Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Leu Ala Pro
        530   535   540

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
545   550   555   560

Val Arg Cys Ser Gly Asn Glu Ser Tyr Leu Trp Ser Cys Pro His Asn
                565   570   575

Gly Trp Leu Ser His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile
                580   585   590

Cys Ser Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
        595   600   605

Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
        610   615   620

Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys
625   630   635   640

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Arg
                645   650   655

Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser
        660   665   670

Gly His Glu Ser Tyr Leu Trp Ser Cys Pro Asn Asn Gly Trp Leu Ser
        675   680   685

His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Ala
        690   695   700

Gln Ser Arg Ser Thr Pro Arg Pro Asp Thr Leu Ser Thr Ile Thr Leu
705   710   715   720

Pro Pro Ser Thr Val Gly Ser Glu Ser Ser Leu Thr Leu Arg Leu Val
                725   730   735

Asn Gly Ser Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly
            740   745   750

Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn
            755   760   765

Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro Gly
            770   775   780

Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val
785   790   795   800

Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly
            805   810   815

Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys
            820   825   830

Ser Val Ser Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr
            835   840   845

Ser His Ala Ser Thr Ala Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu
            850   855   860

Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg
865   870   875   880

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala
            885   890   895

Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro
            900   905   910

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
            915   920   925

Val Arg Cys Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn
            930   935   940

Gly Trp Leu Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile
945   950   955   960

Cys Ser Ala Ala His Ser Trp Ser Thr Pro Ser Pro Asp Thr Leu Pro
        965   970   975

Thr Ile Thr Leu Pro Ala Ser Thr Val Gly Ser Glu Ser Ser Leu Ala
        980   985   990

Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val
        995   1000   1005

Leu Tyr Gln Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp
    1010   1015   1020

Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp
    1025   1030   1035

Ala Met Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly
    1040   1045   1050

Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser Tyr
    1055   1060   1065

Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
    1070   1075   1080

His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Ser Gln Ser Arg
    1085   1090   1095

Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala Ser Thr
    1100   1105   1110

Ala Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
    1115   1120   1125

Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp
    1130   1135   1140

Gly Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val
    1145   1150   1155

Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly
    1160   1165   1170

Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp

Val Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His
     1190   1195   1200

Asn Gly Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly
     1205   1210   1215

Val Ile Cys Ser Ala Ser Gln Ser Gln Pro Thr Pro Ser Pro Asp
     1220   1225   1230

Thr Trp Pro Thr Ser His Ala Ser Thr Ala Gly Ser Glu Ser Ser
     1235   1240   1245

Leu Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg
     1250   1255   1260

Val Glu Val Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp Asp
     1265   1270   1275

Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly
     1280   1285   1290

Cys Ser Trp Ala Thr Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln
     1295   1300   1305

Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly His
     1310   1315   1320

Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Phe Ser His
     1325   1330   1335

Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Ser
     1340   1345   1350

Gln Ser Gln Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His
     1355   1360   1365

Ala Ser Thr Ala Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val
     1370   1375   1380

Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg
     1385   1390   1395

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Gly  Ser   Trp  Gly  Thr  Val  Cys   Asp  Asp  Tyr  Trp  Asp   Thr  Asn  Asp
     1400                 1405                 1410

Ala  Asn   Val  Val  Cys  Arg  Gln   Leu  Gly  Cys  Gly  Trp   Ala  Thr  Ser
     1415                 1420                 1425

Ala  Pro   Gly  Asn  Ala  Arg  Phe   Gly  Gln  Gly  Ser  Gly   Pro  Ile  Val
     1430                 1435                 1440

Leu  Asp   Asp  Val  Arg  Cys  Ser   Gly  His  Glu  Ser  Tyr   Leu  Trp  Ser
     1445                 1450                 1455

Cys  Pro   His  Asn  Gly  Trp  Leu   Ser  His  Asn  Cys  Gly   His  His  Glu
     1460                 1465                 1470

Asp  Ala   Gly  Val  Ile  Cys  Ser   Ala  Ser  Gln  Ser  Gln   Pro  Thr  Pro
     1475                 1480                 1485

Ser  Pro   Asp  Thr  Trp  Pro  Thr   Ser  Arg  Ala  Ser  Thr   Ala  Gly  Ser
     1490                 1495                 1500

Glu  Ser   Thr  Leu  Ala  Leu  Arg   Leu  Val  Asn  Gly  Gly   Asp  Arg  Cys
     1505                 1510                 1515

Arg  Gly   Arg  Val  Glu  Val  Leu   Tyr  Gln  Gly  Ser  Trp   Gly  Thr  Val
     1520                 1525                 1530

Cys  Asp   Asp  Tyr  Trp  Asp  Thr   Asn  Asp  Ala  Asn  Val   Val  Cys  Arg
     1535                 1540                 1545

Gln  Leu   Gly  Cys  Gly  Trp  Ala   Met  Ser  Ala  Pro  Gly   Asn  Ala  Gln
     1550                 1555                 1560

Phe  Gly   Gln  Gly  Ser  Gly  Pro   Ile  Val  Leu  Asp  Asp   Val  Arg  Cys
     1565                 1570                 1575

Ser  Gly   His  Glu  Ser  Tyr  Leu   Trp  Ser  Cys  Pro  His   Asn  Gly  Trp
     1580                 1585                 1590

Leu  Ser   His  Asn  Cys  Gly  His   His  Glu  Asp  Ala  Gly   Val  Ile  Cys
     1595                 1600                 1605
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Ser Ala  Ala Gln Ser Gln Ser  Thr Pro Arg Pro Asp  Thr Trp Leu
    1610                 1615               1620

Thr Thr  Asn Leu Pro Ala Leu  Thr Val Gly Ser Glu  Ser Ser Leu
    1625                 1630               1635

Ala Leu  Arg Leu Val Asn Gly  Gly Asp Arg Cys Arg  Gly Arg Val
    1640                 1645               1650

Glu Val  Leu Tyr Arg Gly Ser  Trp Gly Thr Val Cys  Asp Asp Ser
    1655                 1660               1665

Trp Asp  Thr Asn Asp Ala Asn  Val Val Cys Arg Gln  Leu Gly Cys
    1670                 1675               1680

Gly Trp  Ala Met Ser Ala Pro  Gly Asn Ala Arg Phe  Gly Gln Gly
    1685                 1690               1695

Ser Gly  Pro Ile Val Leu Asp  Asp Val Arg Cys Ser  Gly Asn Glu
    1700                 1705               1710

Ser Tyr  Leu Trp Ser Cys Pro  His Lys Gly Trp Leu  Thr His Asn
    1715                 1720               1725

Cys Gly  His His Glu Asp Ala  Gly Val Ile Cys Ser  Ala Thr Gln
    1730                 1735               1740

Ile Asn  Ser Thr Thr Thr Asp  Trp Trp His Pro Thr  Thr Thr Thr
    1745                 1750               1755

Thr Ala  Arg Pro Ser Ser Asn  Cys Gly Gly Phe Leu  Phe Tyr Ala
    1760                 1765               1770

Ser Gly  Thr Phe Ser Ser Pro  Ser Tyr Pro Ala Tyr  Tyr Pro Asn
    1775                 1780               1785

Asn Ala  Lys Cys Val Trp Glu  Ile Glu Val Asn Ser  Gly Tyr Arg
    1790                 1795               1800

Ile Asn  Leu Gly Phe Ser Asn  Leu Lys Leu Glu Ala  His His Asn
    1805                 1810               1815
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Cys Ser Phe Asp Tyr Val Glu Ile Phe Asp Gly Ser Leu Asn Ser
    1820   1825   1830

Ser Leu Leu Leu Gly Lys Ile Cys Asn Asp Thr Arg Gln Ile Phe
    1835   1840   1845

Thr Ser Ser Tyr Asn Arg Met Thr Ile His Phe Arg Ser Asp Ile
    1850   1855   1860

Ser Phe Gln Asn Thr Gly Phe Leu Ala Trp Tyr Asn Ser Phe Pro
    1865   1870   1875

Ser Asp Ala Thr Leu Arg Leu Val Asn Leu Asn Ser Ser Tyr Gly
    1880   1885   1890

Leu Cys Ala Gly Arg Val Glu Ile Tyr His Gly Gly Thr Trp Gly
    1895   1900   1905

Thr Val Cys Asp Asp Ser Trp Thr Ile Gln Glu Ala Glu Val Val
    1910   1915   1920

Cys Arg Gln Leu Gly Cys Gly Arg Ala Val Ser Ala Leu Gly Asn
    1925   1930   1935

Ala Tyr Phe Gly Ser Gly Ser Gly Pro Ile Thr Leu Asp Asp Val
    1940   1945   1950

Glu Cys Ser Gly Thr Glu Ser Thr Leu Trp Gln Cys Arg Asn Arg
    1955   1960   1965

Gly Trp Phe Ser His Asn Cys Asn His Arg Glu Asp Ala Gly Val
    1970   1975   1980

Ile Cys Ser Gly Asn His Leu Ser Thr Pro Ala